

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions and listings of the claims in this application:

1. (Currently Amended) An electromechanical converter, ~~in particular an electric variable transmission, provided with~~ comprising:

a primary shaft (5) having a rotor (8) mounted thereon;

a secondary shaft (7) having an interrotor (15) mounted thereon; and

a stator (10), fixedly mounted to ~~the~~ a housing (3) of the electromechanical converter, wherein, viewed from the primary shaft (5) in a radial direction, the rotor (8), the interrotor (15), and the stator (10) are arranged concentrically relative to each other, and wherein the rotor (8) and the stator (10) ~~are designed with~~ comprise one or more ~~mono- or polyphase, electrically accessible windings, characterized in that~~ and wherein the interrotor (15) ~~forms~~ comprises one whole both mechanically and electromagnetically, and is arranged as a conductor for the magnetic flux in an at least tangential direction.

2. (Currently Amended) ~~An~~ The electromechanical converter according to claim 1, characterized in that ~~in the interrotor (15) comprising~~ comprises an electric and a magnetic circuit, and the magnetic circuit ~~is formed by~~ comprises a cylinder having ~~on two sides, with~~ both sides defining longitudinally extending grooves in which ~~the~~ electric circuit-forming shortcircuit windings extend.

3. (Currently Amended) ~~An~~The electromechanical converter according to claim 1, characterized in that ~~in the interrotor (15)~~ is formed by a magnetic flux conducting cylinder, ~~while and the electromagnetic converter further comprises permanently magnetic material applied on opposite first and second sides thereof permanently magnetic material is applied of the interrotor.~~

4. (Currently Amended) ~~An~~The electromechanical converter according to claim 1, characterized in that ~~by~~ the interrotor ~~(15)~~ is being formed by a magnetic flux conducting cylinder, and the electromechanical converter further comprises:

~~while on one side~~ permanently magnetic material is applied on a first side of the interrotor; and

~~on the other side~~ longitudinally extending grooves are ~~provided~~ associated with a second side of the interrotor in which an electrically accessible winding is provided.

5. (Currently Amended) ~~An~~The electromechanical converter according to ~~any one of claims 1-4~~claim 1, characterized in that ~~by~~ the stator winding and rotor winding ~~are~~ being mutually connected with each other via one or more power electronic converters ~~(12, 13).~~

6. (Currently Amended) ~~An~~The electromechanical converter according to claim 5, characterized in that ~~by~~ said one or more power electronic converters ~~(12, 13)~~ are being electrically accessible via ~~one single~~ an electric gate.

7. (Currently Amended) ~~An~~The electromechanical converter according to ~~any one of claims 1-4~~claim 1, characterized in that the stator winding and rotor winding are ~~each~~ separately, ~~via~~ accessible through a power electronic converter, ~~accessible via~~ and an electric gate.

8. (Currently Amended) An apparatus provided with an electromechanical converter according to ~~any one of claims 1-7~~claim 1 ~~for starting a driving combustion engine.~~

9. (Currently Amended) An apparatus provided with an electromechanical converter according to ~~any one of claims 1-7 for supplying electrical equipment.~~claim 1, wherein the apparatus is selected from the group consisting of an apparatus for starting a driving combustion engine and an apparatus for supplying electrical equipment.

10. (Currently Amended) ~~An~~The apparatus provided with an electromechanical converter according to ~~any one of claims 1-7~~claim 8, ~~characterized in that~~further comprising a system for the storage of energy ~~is incorporated therein.~~